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Notice of Allowability	Application No.	Applicant(s)	
	10/667,971	TSUCHIYA, TOMOYUKI	
	Examiner	Art Unit	
	Tuan C To	3663	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apportant or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>09/23/2003</u> .			
2. The allowed claim(s) is/are <u>1-2</u> .			
3. X The drawings filed on 14 July 2004 are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the certified copies of the priority documents have The priority documents have The priority documents have Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application No cuments have been received in this of this communication to file a reply	national ståge applica	·
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	'S AMENDMENT or N tion is deficient.	OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposit o	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C 84(c)) should be written on the drawing he header according to 37 CFR 1.121(c sit of BIOLOGICAL MATERIAL n	office action of the front (not the d). nust be submitted. N	,
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 09/23/03, 01/30/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's Stateme 9. □ Other	(PTO-413), e nent/Comment	iwance

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

This communication is an Examiner's reasons for allowance in response to application filed on 09/23/2003, assigned serial 10/667,971 and titled "Abnormality Determining Device for Longitudinal Acceleration Sensor for Vehicle and Method thereof"

The following is the Examiner's statement of reasons for the indication of allowable subject matter:

After carefully performing the prior art search in some areas that are relevant to the subject matter of the claimed invention, the examiner has found none of the references, either alone or in a combination, teaches or fairly suggests "An abnormality determining device for a longitudinal acceleration sensor for a vehicle comprising:...deciding unit for setting a determination-permission region based on the estimated values of the first a determination-permission and second acceleration estimating unit so as to output a determination-permission signal when a deviation Between the vehicle acceleration estimated by the first acceleration estimating unit and the vehicle acceleration estimated by the second acceleration estimating unit is within predetermined value, and a determining unit for setting an abnormality determining region based on the vehicle acceleration estimated by the second acceleration estimating unit and for determining that the longitudinal acceleration sensor is abnormal. if the output value of the longitudinal acceleration sensor exists in the abnormality determining region for a predetermined time or longer in a state that the determinationpermission deciding unit outputs a determination-permission signal", "outputting a

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determination-permission signal when a deviation between the first vehicle acceleration and the second vehicle acceleration is within a predetermined value, setting a determination-permission region based on the first and second vehicle acceleration, setting an abnormality determining region based on the second vehicle acceleration, and determining that the longitudinal acceleration sensor is abnormal, if the output value of the longitudinal acceleration sensor exists in the abnormality determining region for a predetermined time or longer a state that determination-permission signal is output.

The prior art closest to the subject matter of claims 1 and 2 is the reference to Sasaki et al. (US 5671981A), in which the sensor malfunction detecting system in order to provide the safety during driving. Although Sasaki et al. teach the sensor devices for detecting acceleration, pressure, Sasaki et al. do not disclose that there is an acceleration estimating unit for estimating a vehicle acceleration based on throttle angle of an engine. As shown in the flow chart of figure 5, the absolute value of Gp-Gs does not derive the deviation based on wheel speed and throttle angle as specially required in claims 1 and 2 of the present application. Sasaki et al. teach the sensor malfunction detecting device (7) (Figure 18), however, that device or none of the devices disclosed in Sasaki et al. is used either for setting a determination-permission region based on the estimated values of the first and second acceleration estimating unit..., or setting an abnormality determining region based on the vehicle acceleration estimated by the second acceleration estimating unit.

For the reason discussed above, the application is now set in a condition for allowance.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (703) 308-6273. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/tc

March 01, 2005